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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/675,274	09/29/2000	Christopher Richard Uhlik	015685.P052	1012
7590 12/28/2004			EXAMINER	
Gordon R. Lindeen III BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP			TSEGAYE, SABA	
12400 Wilshire Boulevard 7th Floor			ART UNIT	PAPER NUMBER

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/675,274	UHLIK, CHRISTOPHER RICHARD			
Office Action Summary	Examiner	Art Unit			
	Saba Tsegaye	2662			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	l. .136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fr tte, cause the application to become ABANDO	e timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).			
Status	<i>,</i>				
1) Responsive to communication(s) filed on <u>07</u>	September 2004.				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) <u>1-61</u> is/are pending in the application 4a) Of the above claim(s) is/are withdress.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) <u>1-7,10-16,19-22,25-27,30-33,36-40</u> 7) ☐ Claim(s) <u>8,9,17,18,23,24,28,29,34,35,41 and</u> 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.  and 43-61 is/are rejected.  142 is/are objected to.				
Application Papers					
9)☐ The specification is objected to by the Examin	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	•	` '			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	,	, ,			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Application on the documents have been received in Rule 17.2(a)).	ation No ived in this National Stage			
	,				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ppy (PTO 413)			
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informa 6) Other:	l Patent Application (PTO-152)			

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#### **DETAILED ACTION**

## Response to Amendment

1. This office Action is in response to the amendment filed 09/07/04. Claims 1-61 are pending. Claims 1-7,10-16,19-22,25-27,30-33,36-40 and 43-61 are rejected. Claims 8, 9, 17, 18, 23, 24, 28, 29, 34, 35, 41 and 42 are objected to.

# Claim Rejections - 35 USC § 102

Claims 1-3, 10-12, 30, 31, 36, 37, 43, 47-50 and 53-55 are rejected under 35
 U.S.C. 102(e) as being anticipated by Persson et al. (US 6,647,000).

Regarding claims 1, 10, 30 and 36, Persson discloses a method that transmits a first broadcast message in a broadcast channel at a first specific time within a first assigned slot of a predetermined frame from a first base station of a radio communications system, the first broadcast message including a broadcast information sequence; and transmitting a second broadcast message in the broadcast channel at a second specific time within a second assigned slot of the predetermined frame from a second base station of the radio communications system, the second broadcast message including a broadcast information sequence (column 13, line 60-column 14, line 13). Further, Persson discloses receiving a message from a user terminal having a timing relationship with the predetermined frame (column 16, lines 10-21); and determining the base station to which the message is directed based on the timing relationship (column 11, lines 19-27).

Regarding claims 2, 11, 31 and 37, Persson discloses the method further comprising transmitting broadcast messages in the broadcast channel at further specific times within further

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assigned slots of a predetermined frame from further base stations of the radio communications system, the further broadcast messages including a broadcast information sequence (column 5, lines 66-column 6, lines 2; column 7, lines 5-10).

Regarding claims 3 and 12, Persson discloses the method wherein the predetermined frame is a repeating frame (column 8, lines 21-41).

Regarding claim 43, Persson discloses a broadcast channel in a radio communications system, the channel comprising:

a repeating frame shard by a plurality of base stations, the frame having a plurality of slots, each base station being assigned to a slot (column 7, lines 5-10);

a predetermined timing assigned to each slot, so that each slot of the frame is synchronized at all base stations (column 7, lines 11-20);

a broadcast burst message for each base station, for transmission in the respective assigned slot, the burst message having a broadcast information sequence(column 7, lines 5-10; column 8, line 64-column 9, line 12); and

an uplink request channel having a plurality of slots to allow a user terminal to request a traffic channel, each slot of the uplink request channel having a timing relationship with the slots of the repeating frame so that the timing relationship indicates the base station to which the traffic channel request is directed (column 11, lines 19-48).

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Regarding claim 47, Persson discloses the channel further comprising a frequency hopping sequence (column 5, line 63-column 6, line 2).

Regarding claim 48, Persson discloses a method for accessing a wireless network, comprising:

receiving a plurality of timing sequences on a broadcast channel, each timing sequence being received from a different one of a plurality of base stations (column 8, line 64-column 9, line 12);

determining network timing using the received timing sequences (column 11, lines 8-27); selecting one from among the plurality of base stations using the received timing sequences (column 5, lines 66-column 6, lines 2; column 11, lines 8-27);

transmitting a message indicating the base station selection, the message having a relationship indicates the base station to which the message is directed (column 16, lines 10-21).

Regarding claim 49, Persson discloses the method wherein the timing sequences are received with at least one frequency and wherein the method further comprises using the received timing sequences to determine a base station selection message frequency based on the frequency of the received timing sequences (column 8, line 64-column 9, line 12).

Regarding claim 50, Persson discloses the method wherein the message is transmitted omnidirectionally (column 5, lines 54-62).

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Regarding claims 53-55, Persson discloses the method further comprising receiving base station identifiers on the broadcast channel, the base station identifiers each being associated with a respective timing sequence and using the base station identifiers to distinguish broadcasts from different base stations on the broadcast channel (column 11, lines 8-18; column 7, lines 5-10).

## Claim Rejections - 35 USC § 103

3. Claims 19, 20, 25, 26, 56, 57 and 59-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Persson et al.

Regarding claims 19, 25 and 56, Persson discloses all the claim limitations as stated above, except for a machine-readable medium.

Those skilled in the art will appreciate that the physical storage of the sets of instructions physically changes the medium upon which it is stored so that the medium caries machine-readable information.

Therefore, the system of Persson could be modified to use a machine-readable storage medium. At the time the invention was made, it would have been obvious to one ordinary skill in the art to add a machine-readable storage medium into the system of Persson.

One of ordinary skill in the art would have been motivated to do this because programs can be changed and upgraded and new futures are added easily than hardware changes.

Regarding claims 20, 26 and 57, Persson discloses the instruction causing the machine to perform further operations comprising transmitting broadcast messages in the broadcast channel

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at further specific times within further assigned slots of a predetermined frame from further base stations of the radio communications system, the further broadcast messages including a broadcast information sequence (column 5, lines 66-column 6, lines 2; column 7, lines 5-10).

Regarding claims 59-61, Persson discloses the instruction causing the machine to perform further comprising receiving base station identifiers on the broadcast channel, the base station identifiers each being associated with a respective timing sequence and using the base station identifiers to distinguish broadcasts from different base stations on the broadcast channel (column 11, lines 8-18; column 7, lines 5-10).

4. Claims 4, 5, 13, 14, 21, 32, 38, 45, 46, 51, 52, and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Persson et al. (US 6,647,000) in view of Dunn et al. (US 6,591,103).

Persson discloses all the claim limitations as stated above; except for the specific transmission times are determined based on a common timing reference (a satellite clock transmission) received by each base station.

Dunn teaches that using a shared command channel participating networks (from their local base stations) may broadcast their location, frequency availability and bandwidth price.

User devices which wish to make connections and which know their location either through GPS or manual entry, or through other means, can determine which base stations are sufficiently close to make a carrier selection and a protocol selections based from the common channel information. Those skilled in the art will appreciate that radio communication systems have unsynchronized base stations, i.e., base stations that do not share a common timing reference signal.

It would have been obvious to one ordinary skill in the art at the time the invention was made to use the teachings from Dunn of a common timing reference in the system of Persson.

One of ordinary skill in the art would have been motivated to do this because using a common timing reference allows the base stations to synchronize.

5. Claims 6, 7, 15, 16, 22, 27, 33, 39, 40 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Persson et al. in view of Almgren et al. (US 6,212,384).

Persson discloses all the claim limitations as stated above, except for the broadcast information sequence includes a code (color code) to identify the base station.

Almgren teaches that a base station color code (BCC) identifies a particular base station to distinguish between respective BTSs using the same BCCH frequencies (column 7, line 61-column 8, line 10).

It would have been obvious to one ordinary skill in that art at the time the invention was made to use the teachings from Almgren of adding BCC to the frame in the timeslot disclosed by Persson.

One of ordinary skill in the art would have been motivated to do this because adding BCC allows the user to accurately identify candidate base stations for which it is making received signal strength measurements.

#### Response to Arguments

6. Applicant's arguments filed 09/07/04 have been fully considered but they are not persuasive. Applicant argues (Remarks, page 16) that Persson does not disclose "determining the

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base station to which the message is directed based on the timing relationship". The Examiner respectfully disagrees with applicant contention. Persson clearly discloses that the synchronization burst is detected by mobile stations to acquire frame synchronization and for base station identification purpose. The coding of the synchronization burst includes an absolute frame number reference as well as the identity of the transmitting base station. Fig. 5 shows that the synchronization burst is away transmitted in the same timeslot.

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Still on page 16, Applicant argues that Persson does not disclose "receiving a message from a user terminal having a timing relationship with the predetermined frame" further argues that cited claim 28 would appear to conflict with Col. 9, lines 37-41, in which the synchronization burst designates when a mobile station is to receive, not transmit common control information. Examiner respectfully disagrees with Applicant assertion. Fig. 6 shows communications between a mobile station and a base station, in both uplink and downlink directions. The mobile can transmits a message by identifying a particular base station as disclosed on column 11, lines 19-27. Fig. 5 shows a control channel in the downlink. Further, Persson discloses that a control channel in the uplink will be similarly allocated as shown in Fig. 5 (column 9, lines 48-50). Therefore, the cited claim 28 (column 16, lines 10-21) is appropriate. Further, it is respectfully submitted that none of the independent claims disclose that a mobile station transmits common control information.

## Allowable Subject Matter

7. Claims 8, 9, 17, 18, 23, 24, 28, 29, 34, 35, 41 and 42 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saba Tsegaye whose telephone number is (571) 272-3091. The examiner can normally be reached on Monday-Friday (7:30-5:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ST December 23, 2004

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